CLAIMS AS AMENDED

Please amend the claims as follows:

1. (Currently Amended) In a wireless communication system, a method for transmitting a

message from a first entity to a second entity, comprising:

determining, at the first entity, at least one characteristic of a communication link through

which a signal is received from the second entity;

forming the message indicative of a state of the communication link;

assigning a codeword to the message, the codeword being selected from an alphabet of a

plurality of codewords, having a minimum distance of the codeword to its nearest codeword in

the alphabet being associated with based at least in part on the state of the communication link;

and

transmitting the message from the first entity to the second entity at a particular power

level determined based at least in part on the message.

2. (Cancelled)

3. (Previously Presented) The method of claim 1, wherein the power level is determined

based at least in part on the minimum distance of the codeword.

4. (Previously Presented) The method of claim 1, wherein the power level is determined

based at least in part on an expected frequency of the codeword being transmitted.

5. (Previously Presented) The method of claim 1, wherein the power level is determined

based at least in part on a particular number of times the codeword is repeated for a transmission.

6. (Previously Presented) The method of claim 1, wherein the message comprises a data

rate control message indicative of a rate for a data transmission requested from the second entity.

7. (Original) The method of claim 1, wherein the at least one characteristic comprises a

carrier-to-noise-plus interference ratio (C/I).

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8. (Previously Presented) The method of claim 6, wherein the message is selected from a

plurality of data rate control messages.

9. (Previously Presented) The method of claim 1, wherein the minimum distance of the

codeword is based at least in part on a signal quality of the communication link.

10. (Currently Amended) The method of claim 1, wherein the minimum distance of the

codeword is based at [[lest]] <u>least</u> in part on how frequently the message is transmitted.

11. (Previously Presented) In a wireless communication system, a method for transmitting a

message from a first entity to a second entity, comprising:

identifying a codeword associated with the message, wherein the identified codeword is

one of a plurality of codewords defined for an alphabet, and wherein at least two codewords in

the alphabet have unequal distances to their nearest codewords;

determining a transmit power level for the identified codeword, based at least in part on a

distance of the identified codeword to its nearest codeword in the alphabet; and

transmitting the identified codeword from the first entity to the second entity at the

determined transmit power level.

12. (Cancelled)

13. (Cancelled)

14. (Previously Presented) The method of claim 11, wherein the transmit power level for the

identified codeword is determined to achieve a particular level of performance.

15. (Original) The method of claim 14, wherein the particular level of performance is

approximately one percent frame error rate or better.

16. (Original) The method of claim 11, wherein the message to be transmitted is one of a

plurality of possible messages, and wherein the plurality of codewords in the alphabet are

assigned to the plurality of possible messages in accordance with a particular assignment scheme.

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17. (Previously Presented) The method of claim 16, wherein the plurality of codewords in the alphabet are assigned to the plurality of possible messages such that messages to be transmitted at higher transmit power levels are assigned with codewords having larger distances

transmitted at higher transmit power revers are assigned with codewords having larger distances

to their nearest codewords.

18. (Currently Amended) The method of claim 16, wherein the plurality of codewords in the

alphabet are assigned to the plurality of possible messages such that messages to be transmitted

frequently are assigned with codewords having larger distances to their nearest codewords.

19. (Original) The method of claim 11, wherein the alphabet includes N codewords having

minimum distances of d<sub>1</sub> through d<sub>N</sub>, and wherein the minimum distances conform to the

following:

$$d_1 \ge d_2 \ge ... \ge d_{N-1} \ge d_N$$
, and  $d_1 > d_N$ .

20. (Original) The method of claim 11, wherein the message identifies a particular data rate

for a data transmission requested by the first entity from the second entity.

21. (Previously Presented) The method of claim 11, wherein the first entity comprises an

access terminal in the wireless communication system.

22. (Previously Presented) The method of claim 11, wherein the wireless communication

system comprises a CDMA system.

23. (Cancelled)

24. (Cancelled)

25. (Previously Presented) The method of claim 11, wherein the plurality of codewords in

the alphabet are associated with a plurality of points in a signal constellation, and wherein at least

two points in the signal constellation have unequal distances to their nearest codewords.

26. (Original) The method of claim 25, wherein the plurality of points in the signal

constellation are selected from points in signal constellations for quadrature phase shift keying

(QPSK), M-ary phase shift keying (M-PSK), M-ary quadrature amplitude modulation (M-QAM),

or a combination thereof.

27-30. (Cancelled)

31. (Currently Amended) An access terminal in a wireless communication system,

comprising:

a receiver configured to receive a signal from an access network and determine at least

one characteristic of a communication link through which the signal is received;

a data processor configured to form a message indicative of a state of the communication

link and assign a codeword to the message, the codeword being selected from an alphabet of a

plurality of codewords, having a minimum distance of the codeword to its nearest codeword in

the alphabet being associated with based at least in part on the state of the communication link;

and

a transmitter unit configured to transmit the message at a particular power level

determined based at least in part on the message.

32. (Previously Presented) An access terminal in a wireless communication system,

comprising:

a data processor configured to identify a codeword associated with a message, wherein

the identified codeword is one of a plurality of codewords defined for an alphabet, and wherein at

least two codewords in the alphabet have unequal distances to their nearest codewords, the data

processor further configured to determine a transmit power level for the identified codeword,

based at least in part on a distance of the identified codeword to its nearest codeword in the

alphabet; and

a transmitter unit operatively coupled to the data processor and configured to transmit the

identified codeword at the determined transmit power level.

33. (Cancelled)

34. (Currently Amended) The access terminal of claim 32, further comprising:

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a signal quality measurement unit configured to receive samples for a received signal and

to determine a received signal quality of signals transmitted from one or more transmitting

sources, [[and]] wherein the transmit power level is associated with the received signal quality of

a transmitting source to which the identified codeword is transmitted.

35. (Currently Amended) A communication unit in a wireless communication system,

comprising:

a receiver configured to receive a signal from a transmitting source and determine at least

one characteristic of a communication link through which the signal is received;

a data processor configured to form a message indicative of a state of the communication

link and assign a codeword to the message, the codeword being selected from an alphabet of a

plurality of codewords, having a minimum distance of the codeword to its nearest codeword in

the alphabet being associated with based at least in part on the state of the communication link;

and

a transmitter unit configured to transmit the message at a particular power level

determined based at least in part on the message.

36. (Cancelled)

37. (Currently Amended) An apparatus in a wireless communication system, comprising:

means for receiving a signal from a transmitting source and determining at least one

characteristic of a communication link through which the signal is received;

means for forming a message indicative of a state of the communication link;

means for assigning a codeword to the message, the codeword being selected from an

alphabet of a plurality of codewords, having a minimum distance of the codeword to its nearest

codeword in the alphabet being associated with based at least in part on the state of the

communication link; and

means for transmitting the message at a particular transmit power determined based at

least in part on the message.

38. (Cancelled)

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39. (Previously Presented) The access terminal of claim 31, wherein the power level is

determined based at least in part on the minimum distance of the codeword.

40. (Previously Presented) The access terminal of claim 31, wherein the at least one

characteristic comprises a carrier-to-noise-plus interference ratio (C/I).

41. (Previously Presented) The access terminal of claim 31, wherein the message comprises

a data rate control message indicative of a rate for a data transmission requested from the second

entity.

42. (Previously Presented) The access terminal of claim 31, wherein the minimum distance

of the codeword is based at least in part on a signal quality of the communication link.

43. (Previously Presented) The access terminal of claim 32, wherein the plurality of

codewords in the alphabet are assigned to the plurality of possible messages such that messages

to be transmitted at higher transmit power levels are assigned with codewords having larger

distances to their nearest codewords

44. (Previously Presented) The access terminal of claim 32, wherein the plurality of

codewords in the alphabet are associated with a plurality of points in a signal constellation, and

wherein at least two points in the signal constellation have unequal distances to their nearest

codewords.

45. (Previously Presented) An apparatus in a wireless communication system, comprising:

means for identifying a codeword associated with a message, wherein the identified

codeword is one of a plurality of codewords defined for an alphabet, and wherein at least two

codewords in the alphabet have unequal distances to their nearest codewords;

means for determining a transmit power level for the identified codeword, based at least

in part on a distance of the identified codeword to its nearest codeword in the alphabet; and

means for transmitting the identified codeword at the determined transmit power level.